



TMHJMC 04/11/03 4810-56910 182068.doc

PATENT #13

RECEIVED

APR 15 2003

TECH CENTER 1600/2900

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Wang *et al.*

Application No. 09/733,507

Filed: December 8, 2000

For: CYCLIN-DEPENDENT KINASE
INHIBITORS AS PLANT GROWTH
REGULATORS


Examiner: Cynthia E. Collins

Date: April 11, 2003

Art Unit: 1638

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on April 11, 2003 as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231


Tanya M. Harding, Ph.D.
Attorney for Applicant

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)(3)

COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language documents. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Applicants filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS. However, if the Patent Office determines that a fee is required for Applicants to file this Information Disclosure Statement, please see the attached transmittal letter for deposit account authority.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By 

Tanya M. Harding, Ph.D.
Registration No. 42,630

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 226-7391
Facsimile: (503) 228-9446



GAU 1638
PATENT
Attorney Reference Number 4810-56910
#B
JTB

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Wang *et al.*

Art Unit: 1638

Application No. 09/733,507

Filed: December 8, 2000

For: CYCLIN-DEPENDENT KINASE
INHIBITORS AS PLANT GROWTH
REGULATORS

Examiner: Cynthia E. Collins

Date: April 11, 2003

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on April 11, 2003, as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, WASHINGTON D.C. 20231.

Tanya M. Harding, Ph.D.
Attorney for Applicant

TRANSMITTAL LETTER

COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231

RECEIVED

APR 15 2003

TECH CENTER 1600/2900

Enclosed for filing in the application referenced above are the following:

- ☒ Supplemental Information Disclosure Statement
- ☒ Form 1449 and copies of (42) references cited thereon
- ☒ The Director is hereby authorized to charge any fees that may be required to Deposit Account No. 02-4550. A copy of this sheet is enclosed.
- ☒ Please return the enclosed postcard to confirm that the items listed above have been received.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By

Tanya M. Harding, Ph.D.
Registration No. 42,630

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 226-7391
Facsimile: (503) 228-9446
cc: Docketing

INFORMATION DISCLOSURE CITATION

Form PTO-1449 (Modified)

(Use several sheets if necessary)



ATTY. DOCKET NO.

81601-16

SERIAL NO.

09/733,507

APPLICANT

WANG, Hong et al.

FILING DATE

December 8, 2000

GROUP

RECEIVED
APR 15 2003
TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

-	C1	Alberts B, Bray D, Lewis J, Raff M, Roberts K, Watson JD (1983) Molecular Biology of the Cell. Garland Publishing: New York, pp. 1139-1142
-	C2	Bell MH, Halford NG, Ormrod JC, Francis D (1993) Tobacco plants transformed with cdc25, a mitotic inducer gene from fission yeast. Plant Mol Biol 23: 445-451
-	C3	Brock TG, Kaufman PB (1991) Growth regulators: an account of hormones and growth regulation. In Growth and Development, Plant Physiology - A Treatise. Volume 10. Academic Press: San Diego, pp. 277-340
-	C4	Colasanti J, Cho S-D, Wick S, Sundaresan V (1993) Localization of the functional p34 ^{cdc2} homolog of maize in root tip and stomatal complex cells: association with predicted vision sites. Plant Cell 5: 1101-1111
-	C5	De Veylder L, Segers G, Glab N, Casteels P, Van Montagu M, Inzé D (1997) The Arabidopsis Cks1At protein binds the cyclin-dependent kinases Cdc2aAt and Cdc2bAt. FEBS Lett 412: 446-452
-	C6	Boonan J, Fobert P (1997) Conserved and novel regulators of the plant cell cycle. Curr Opin Cell Biol 9: 824-830
-	C7	Evans, M.L. (1984) Functions of hormones at the cellular level of organization. In Hormonal Regulation of Development II. Encyclopedia of Plant Physiology, New Series, Volume 10 (Scott T. K. ed.). Berlin: Springer-Verlag, pp. 23-79
-	C8	Ferreira PCG, Hemerly AS, de Almeida Engler J, Van Montagu M, Engler G, Inzé D (1994) Developmental expression of the Arabidopsis cyclin gene cyc1At. Plant Cell 6: 1763-1774
-	C9	Ferreira PCG, Hemerly AS, Villarreal R, Van Montagu M, Inzé D (1991) The Arabidopsis functional homolog of the p34 ^{cdc2} protein kinase. Plant Cell 3: 531-540
-	C10	Francis D, Halford NG (1995) The plant cell cycle. Physiol Plant 93: 365-374
-	C11	Gorst JR, John PCL, Sek FJ (1991) Levels of p34 ^{cdc2} -like protein in dividing, differentiating and dedifferentiating cells of carrot. Planta 185: 304-310
-	C12	Graf G, Larkins BA (1995) Endoreduplication in maize endosperm: involvement of M phase-promoting factor inhibition and induction of S phase-related kinases. Science 269: 1262-1264

S:\Form PTO-1449.doc

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

Form PTO-1449 (Modified)

(Use several sheets if necessary)

ATTY. DOCKET NO.
81601-16SERIAL NO.
09/733,507

APPLICANT

WANG, Hong *et al.*

RECEIVED

FILING DATE
December 8, 2000GROUP
APR 15 2003

U.S. PATENT DOCUMENTS

TECH CENTER 1600/2900

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
FOREIGN PATENT DOCUMENTS						
	Document Number	Date	Country	Class	Subclass	Translation
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
C26	Lindsey, K. and Topping, J. (1998) On the Relationship Between the Plant Cell and the Plant. Vol. 9, pp 171-177					
C27	Lorincz AT, Reed SI (1984) Primary structure homology between the product of yeast cell division control gene CDC28 and vertebrate oncogenes. Nature 307: 183-185					
C28	Luscher B, Eisenman RN (1990) New light on Myc and Myb. Part II. Myb. Genes Dev 4: 2235-2241					
C29	Martin C, Paz-Ares J (1997) MYB transcription factors in plants. Trends Genet 13: 67-73					
C30	Martinez MC, Jorgensen JE, Lawton MA, Lamb CJ, Doerner PW (1992) Spatial pattern of cdc2 expression in relation to meristem activity and cell proliferation during plant development. Proc Natl Acad Sci USA 89: 7360-7364					
C31	Meyerowitz EM (1997) Genetic control of cell division patterns in developing plants. Cell 88: 299-308					
C32	Miao G-H, Hong Z, Verma DPS (1993) Two functional soybean genes encoding p34 ^{cdc2} protein kinases are regulated by different plant developmental pathways Proc Natl Acad Sci USA 90: 943-947					
C33	Minoyuki Y, Yamashita M, Nagahama Y (1991) p34 ^{cdc2} kinase homologue in the preprophase band. Protoplasma 162: 182-186					
C34	Mizoguchi T, Gotoh Y, Nishida E, Yamaguchi-Shinozaki K, Hayashida N, Iwasaki T, Kamada H, Shinozaki K (1994) Characterization of two cDNAs that encode MAP kinase homologues in Arabidopsis thaliana and analysis of the possible role of auxin in activating such kinase activities in cultured cells. Plant J 5: 111-122					
C35	Parker JE, Coleman MJ, Szabo V, Frost LN, Schmidt R, van der Biezen EA, Moores T, Dean C, Daniels MJ, Jones JD (1997) The Arabidopsis downy mildew resistance gene RPP5 shares similarity to the toll and interleukin-1 receptors with N and L6. Plant Cell 9: 879-894					
C36	Pines J (1995) Cyclins and cyclin-dependent kinases: a biochemical view. Biochem J 308: 697-711					

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE CITATION

Form PTO-1449 (Modified)

(Use several sheets if necessary)

ATTY. DOCKET NO.
81601-16SERIAL NO.
09/733,507

APPLICANT

WANG, Hong et al.

RECEIVED

FILING DATE
December 8, 2000

GROUP APR 15 2003

U.S. PATENT DOCUMENTS

TECH CENTER 1600/2900

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

C37	Renaudin J-P, Doonan JH, Freeman D, Hashimoto J, Hirt H, Inz9 D, Jacobs T, Kouchi H, Rouz9 P, Sauter M, Savour9 A, Sorrell DA, Sundaresan V, Murray JAH (1996) Plant Cyclins: a unified nomenclature for plant A-, B- and D-type cyclins based on sequence organization. Plant Mol Biol 32: 1003-1018
C38	Sauter M, Mekhedov SL, Kende H (1995) Gibberellin promotes histone H1 kinase activity and the expression of cdc2 and cyclin genes during the induction of rapid growth in deepwater rice internodes. Plant J 7: 623-632
C39	Segers G, Gadisseur I, Bergounioux C, de Almeida Engler J, Jacqmard A, Van Montagu M, Inzé D (1996) The Arabidopsis cyclin-dependent kinase gene cdc2bAt is preferentially expressed during S and G2 phases of the cell cycle. Plant J 10: 601-612
C40	Sherr CJ, Roberts JM (1995) Inhibitors of mammalian G1 cyclin-dependent kinases. Genes Dev 9: 1149-1163
C41	Soni R, Carmichael JP, Shah ZH, Murray JAH (1995) A family of cyclin D homologs from plants differentially controlled by growth regulators and containing the conserved retinoblastoma protein interaction motif. Plant Cell 7: 85-103
C42	Wang H, Datla R, Georges F, Loewen M, Cutler AJ (1995) Promoters from kin1 and cor6.6, two homologous Arabidopsis thaliana genes: transcriptional regulation and gene expression induced by low temperature, ABA, osmoticum and dehydration. Plant Mol Biol 28: 605-617

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.